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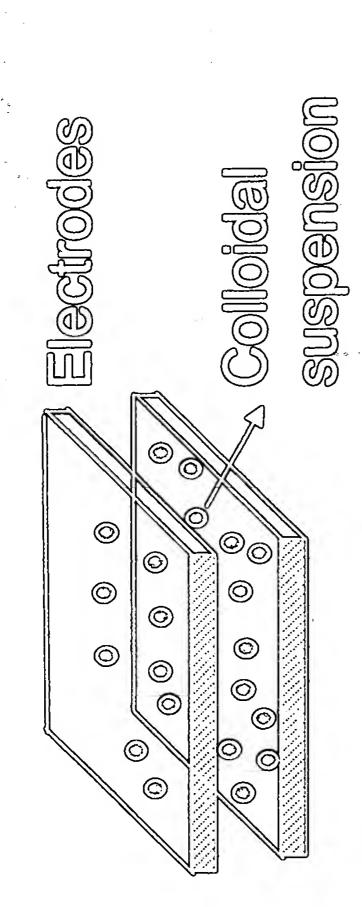
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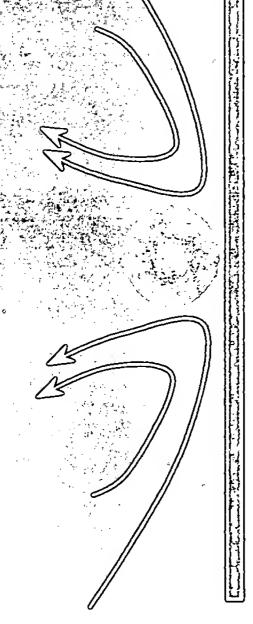
## BIOARRAY Solutions

W Assembly Using Light and Interfacial Patterning a Banerjee, Kairali Podual, Alice Li, Chiu Chau Michael Seul, Sukant

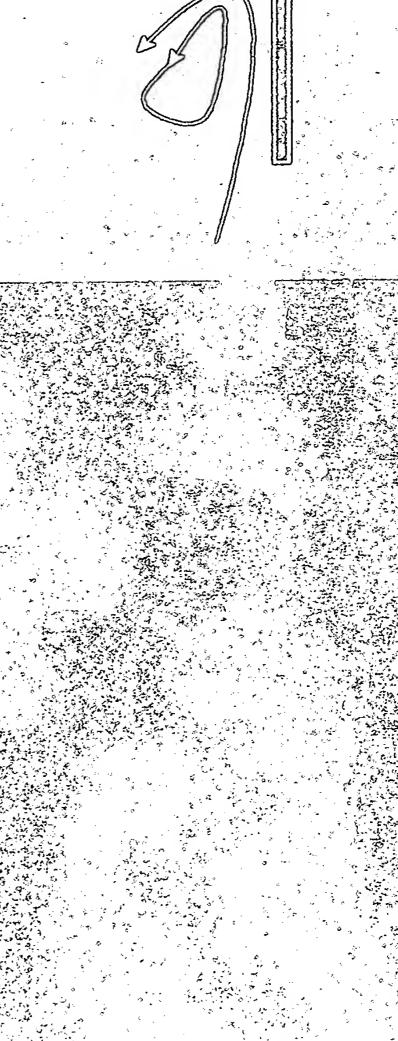
BioArray Solutions 120 Centennial Avenue Piscetaway, NJ 08854 www.BioArrays.com

### ZWStallizati Field Induced





Axielly symmetric toroidal flow field



2-D anystellizetior

Yeh,S., Seul, M., end Shælmen, E.l. Netwre, 233, 57-59 (1997)

Richell, F., Prost, J., and Baroks, P. J., Phys. Left, 45, L1137-L1143(1984) lectrokinetic Assembly of Particles Near Suff Light - Controlled Ele

Silsiox chip =

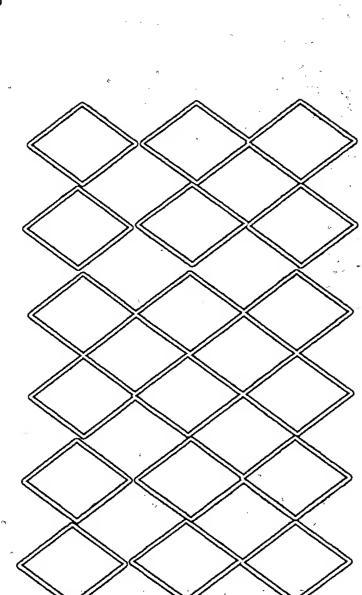
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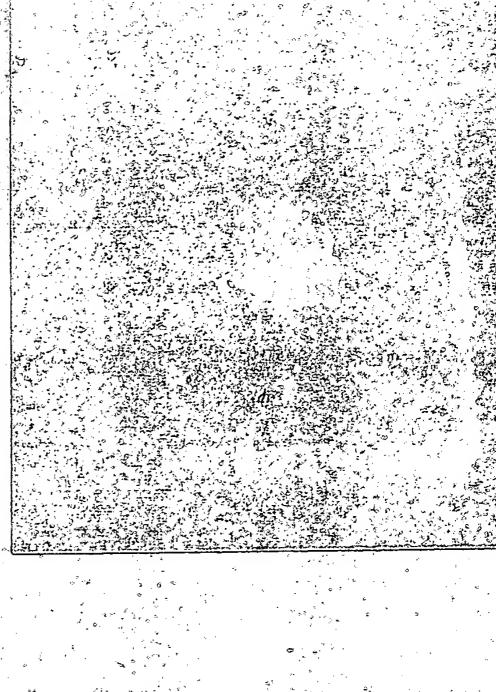
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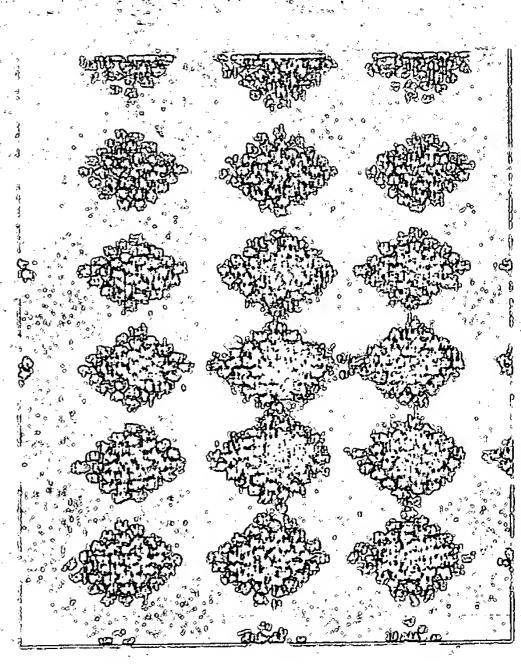
Buildie India

Seul, M. WO 97/4

ight Patterning Mask

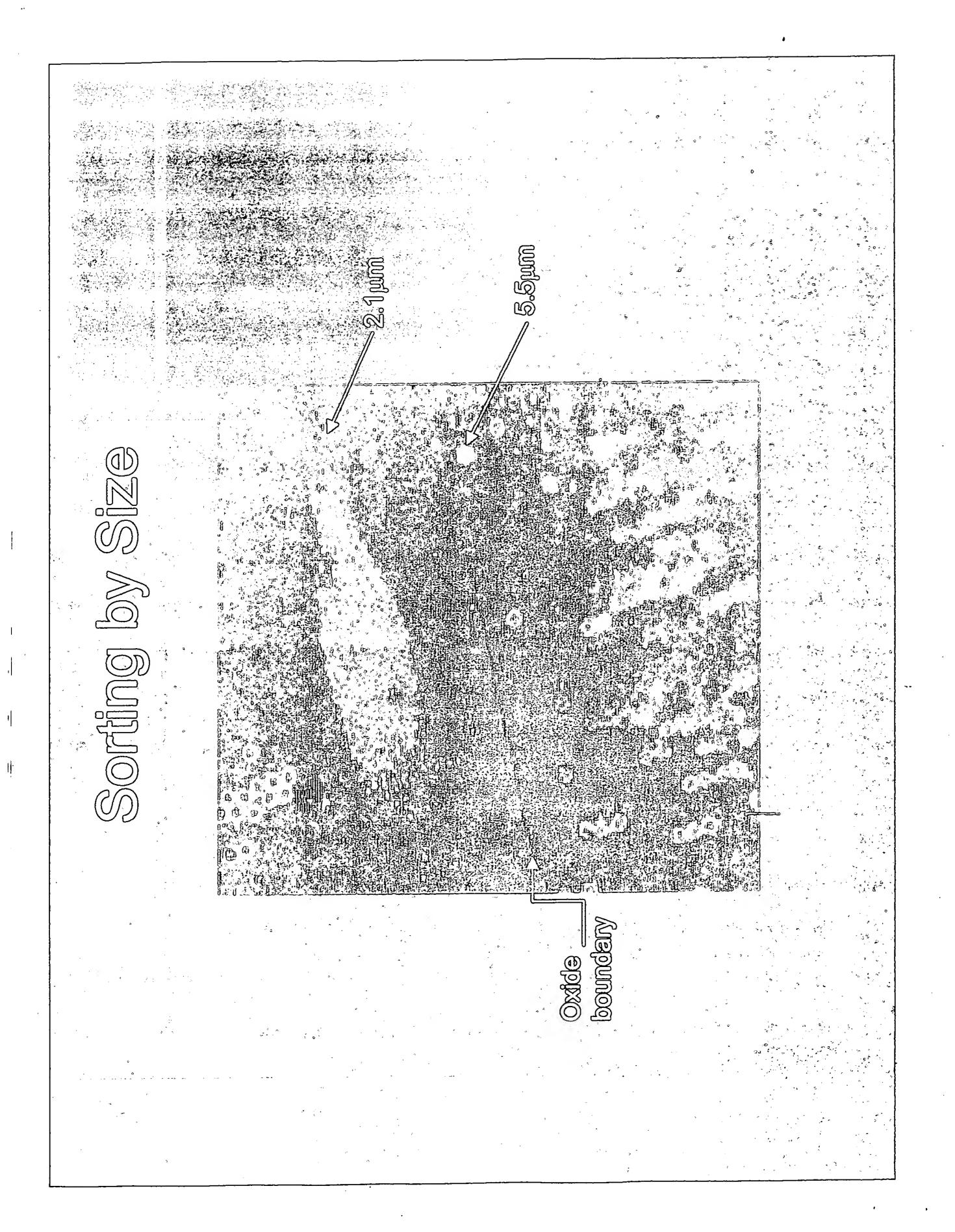


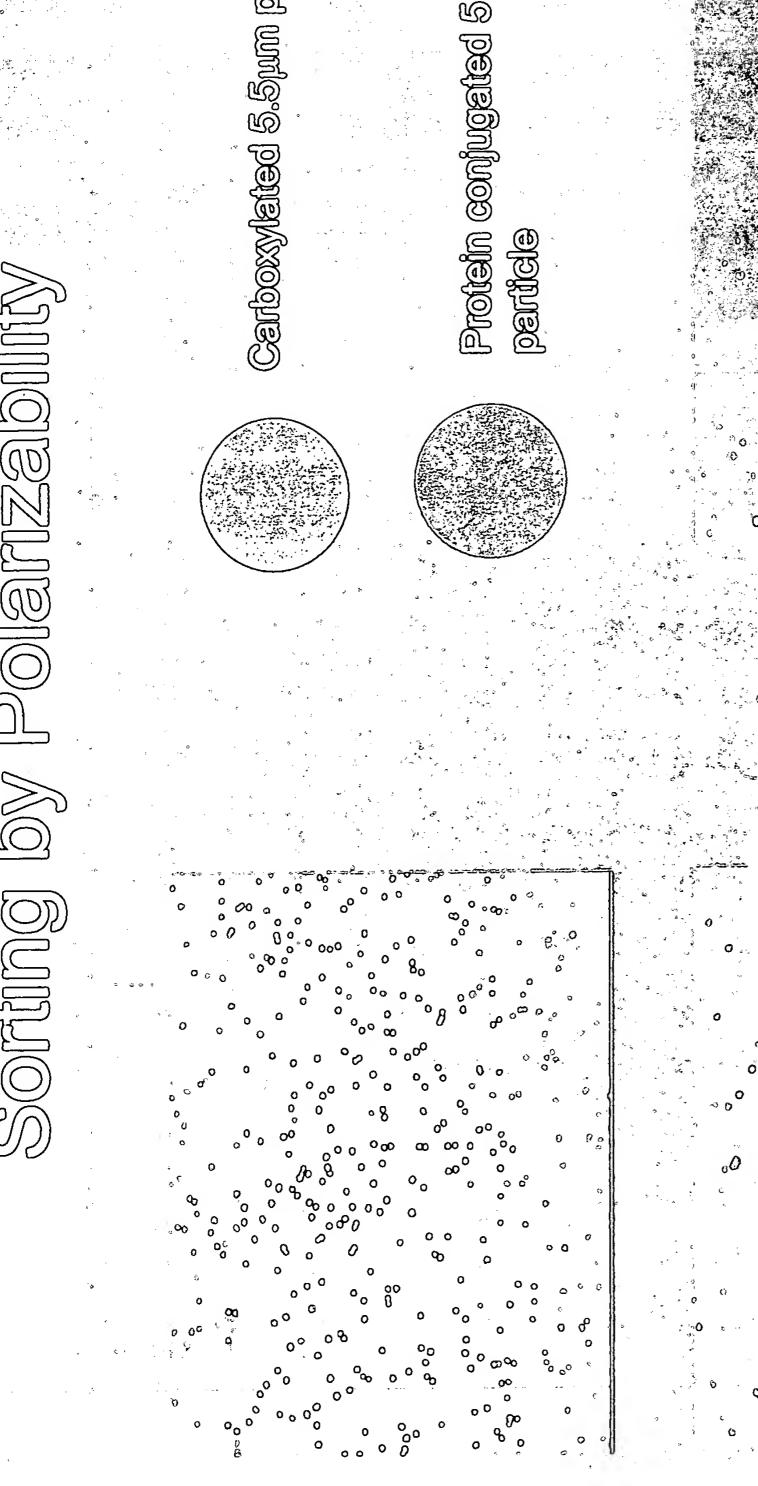


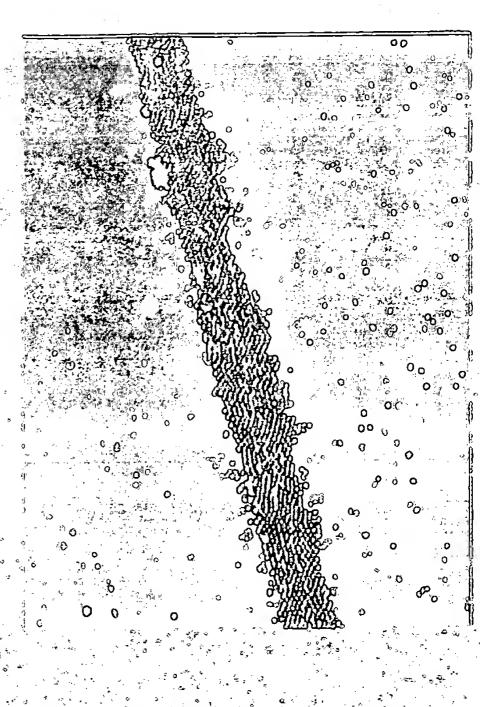


## Modeling of LEAPS

- Electrode-In
- o Electric Field Distribution
- · AC Electro Osmotic Flow (EOF)
- · Bead Polarization
- Equation of Motion





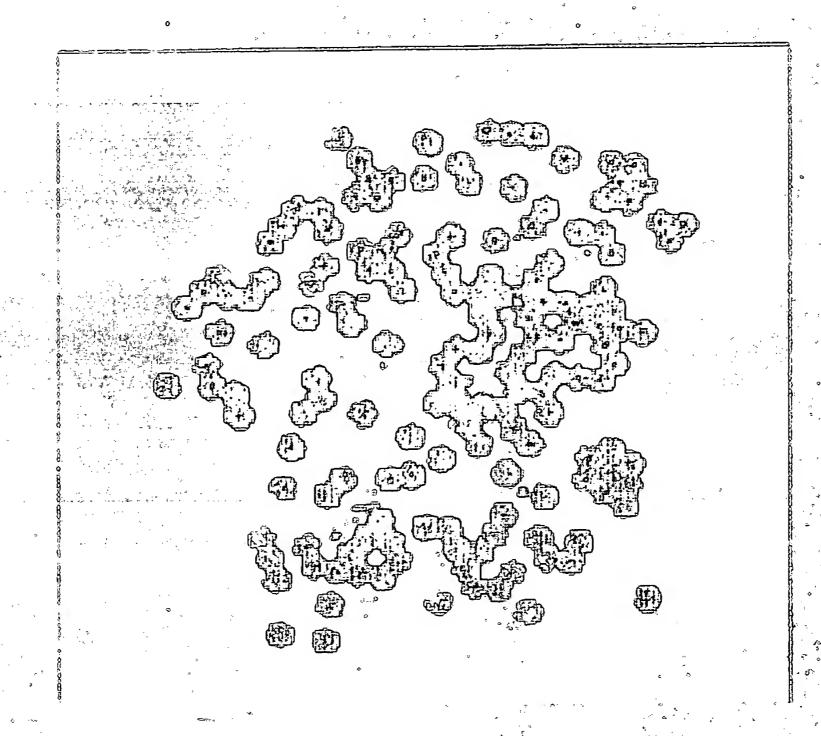


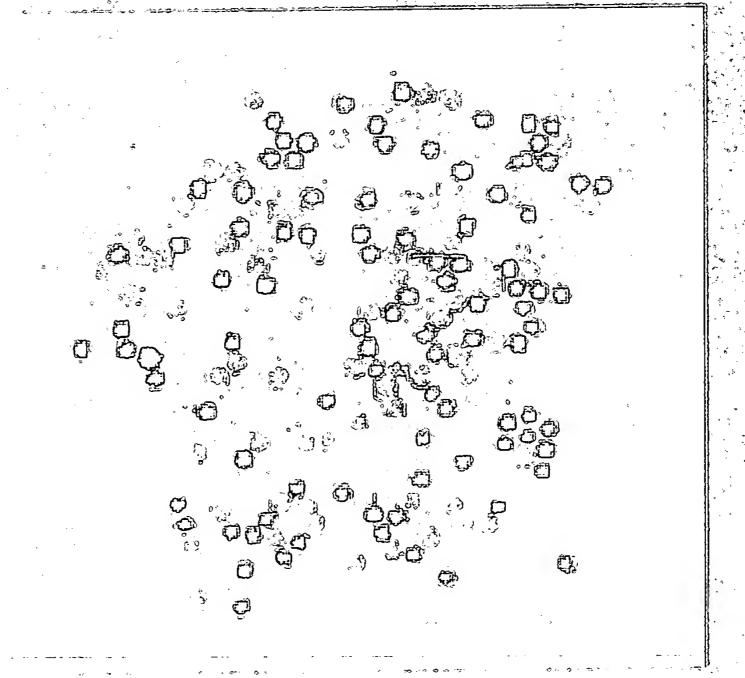
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# nctionalization Multifunctionality 000

Desogling image TARGET

COSOS COSOS SCOO Encoded Array Delection Assen Imege Random Probe Az Probe Ay





### Conclusions

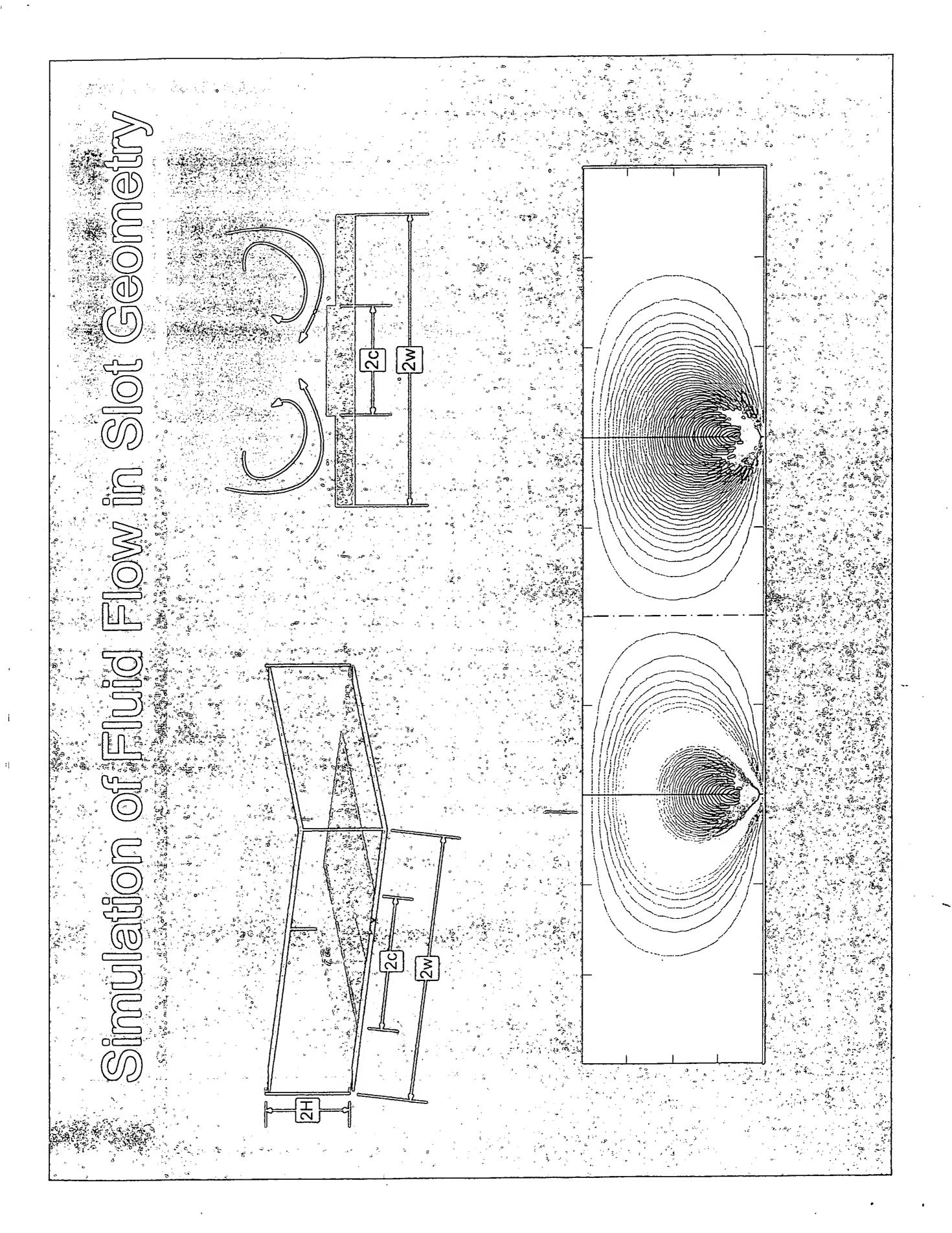
Optically programmable array assembly and reconfiguration

- Gustomized mieropartiele arrays

- DNA chip

- Protein ahip

Cellular Analysis Adwamasd on-chip



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